

Application Number 10/615,336
Amendment dated 10 November 2005
Reply to Office Action of 10 August 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1–11 (canceled).

Claim 12 (currently amended): ~~The liner of claim 10~~ socket liner of Claim 25 or 28, wherein the sensor is an oxygen sensor.

Claim 13 (currently amended): ~~The liner of claim 10~~ socket liner of Claim 25 or 28, wherein the sensor is a pressure sensor.

Claim 14 (currently amended): ~~The liner of claim 10~~ socket liner of Claim 25 or 28, wherein the sensor is a strip.

Claims 15–17 (canceled).

Claim 18 (previously presented): The socket liner of claim 24, wherein the sensor wraps around a bottom of the inner layer.

Claims 19–23 (canceled).

Claim 24 (previously presented): A socket liner for receiving a limb of an amputee comprising:

a liner having an inner and an outer layer, wherein the inner layer is configured to hold a physiological sensor, and the outer layer serves to provide an interface between the inner layer and a socket;

a physiological sensor configured to receive data from a limb regarding its physiological characteristics;

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the sensor being in communication with a transmitter;
the transmitter configured to send data to a receiver to allow an end user to analyze the physiological characteristics of the limb.

Claim 25 (new): A socket liner for receiving an amputated limb of an amputee, comprising:

an inner liner layer having an interior surface and an exterior surface and having a generally sock-like or sleeve-like configuration to receive, on the interior surface, the amputated limb;

an outer liner layer having an interior surface and an exterior surface and having a configuration generally matching that of the inner liner layer, the exterior surface of the outer liner layer receiving the socket; and

at least one sensor configured to receive data from the amputated limb regarding its physiological characteristics, the sensor disposed between the exterior surface of the inner liner layer and the interior surface of the outer liner layer.

Claim 26 (new): The socket liner of Claim 25, wherein the sensor is disposed in a channel formed between the exterior surface of the inner liner layer and the interior surface of the outer liner layer.

Claim 27 (new): The socket liner of Claim 25, wherein the sensor wraps around a bottom portion of the inner liner.

Claim 28 (new): A socket liner for receiving an amputated limb of an amputee, comprising:

a liner body having a generally sock-like or sleeve-like configuration and having an interior surface and an exterior surface;

the interior surface configured to receive the amputated limb;

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the exterior surface having a configuration generally matching that of the interior surface and configured to receive the socket; and

at least one sensor configured to receive data from the amputated limb regarding its physiological characteristics, the sensor disposed between the exterior surface of the liner and the interior surface of the liner.

Claim 29 (new): The socket liner of Claim 28, wherein the sensor is disposed in a channel formed between the exterior surface of the liner and the interior surface of the liner.

Claim 30 (new): The socket liner of Claim 28, wherein the sensor wraps around a bottom portion of the interior surface of the liner.

Claim 31 (new): The socket liner of Claim 28, wherein the sensor is molded into the liner between the liner interior surface and the liner exterior surface.

Claim 32 (new): An apparatus comprising:

an inner liner having an elongate sleeve with a cavity configured to receive a residual limb of an amputee;

an outer liner positioned over the inner liner and having an exterior surface configured to receive a socket thereover;

a sensor configured to receive physiological data from the residual limb, the sensor positioned between the inner liner and the outer liner.

Claim 33 (new): The apparatus of Claim 32, wherein the sensor is an elongate strip configured to be wrapped around a portion of the inner liner.

Claim 34 (new): The apparatus of Claim 32, further comprising a plurality of sensors.

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Claim 35 (new): The apparatus of Claim 32, further comprising an adhesive disposed between the inner liner and the outer liner.

Claim 36 (new): The apparatus of Claim 32, further comprising a transmitter configured to send data to a receiver to allow an end user to analyze physiological characteristics of the residual limb.

Claim 37 (new): The apparatus of Claim 32, wherein the sensor is selected from the group consisting of an oxygen sensor and a pressure sensor.